

## DECLARATION and POWER OF ATTORNEY for PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **ELECTRONIC DEVICES WITH DIFFUSION BARRIER AND PROCESS FOR MAKING SAME** the specification of which (check one) ☒ is attached hereto ☐ was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_ and was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 (a)-(d) or § 365(b) of any foreign application (s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date:	Priority Not Claimed	Certified Copy Attached? Yes No
--	---------	----------------------	-------------------------	------------------------------------

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)
-----------------------	--------------------------

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or §365© of any PCT international application designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Parent Application  
Number

PCT Parent Number

Parent Filing Date  
(MM/DD/YYYY)

Parent Patent Number  
(If applicable)

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number), and hereby certify that the Government of the United States has the irrevocable right to prosecute this application:

SEND CORRESPONDENCE TO: James B. Bechtel, Esq.

NSWCDD (CD222)

Dahlgren, VA 22448-5100

DIRECT TELEPHONE CALLS TO: James B. Bechtel, Esq.

Reg. No. 29,890

(540)653-8061

I hereby declare that all statements made herein of my knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Tak Kin Chu

Inventor's signature *Tak Kin Chu*

Date 4/26/00

Residence 5838 Conway Road, Bethesda, MD 20817

Citizenship United States Post Office Address Same as above

Full name of second joint inventor, if any Francisco Santiago

Second Inventor's signature *Francisco Santiago*

Date 4/26/2000

Residence 5308 Cedar Ridge Drive, Fredericksburg, VA 22407

Citizenship United States Post Office Address Same as above

Full name of third joint inventor, if any Kevin A. Boulais

Third Inventor's signature *Kevin A. Boulais*

Date 4/26/2000

Residence 1315 Wilson Road, Waldorf, MD 20602

Citizenship United States Post Office Address Same as above

Full name of fourth joint inventor, if any \_\_\_\_\_

Fourth Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Residence \_\_\_\_\_

Citizenship \_\_\_\_\_ Post Office Address \_\_\_\_\_

Full name of fifth joint inventor, if any \_\_\_\_\_

Fifth Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Residence \_\_\_\_\_

Citizenship \_\_\_\_\_ Post Office Address \_\_\_\_\_

Full name of sixth joint inventor, if any \_\_\_\_\_

Sixth Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Residence \_\_\_\_\_

Citizenship \_\_\_\_\_ Post Office Address \_\_\_\_\_

# ASSIGNMENT OF INVENTION

83175  
Navy Case No. 82444

WHEREAS, I(we), Tak Kin Chu, Francisco Santiago and Kevin A. Boulais of Bethesda, Fredericksburg, and Waldorf of Maryland, Virginia and Maryland, respectively, while employed by the Government of the United States of America, hereinafter referred to as the Government, have made an invention entitled **ELECTRONIC DEVICES WITH DIFFUSION BARRIER AND PROCESS FOR MAKING SAME** identified as Navy Case No. 82111, and described in application for Letters Patent of the United States of America executed by me(us) on April 26, 2000, and

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, the Government is desirous of obtaining the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, as to foreign rights, the Government desires an option to obtain such rights;

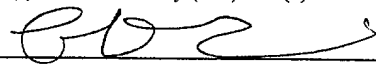
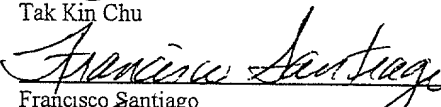

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt of which is hereby acknowledged, I(we) hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the entire right, title, and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me(us) had this assignment not been made.

I(We) do hereby also grant unto the Government, the option to take the entire right, title and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me(us) within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention; and that the rights in the foreign countries not exercised under the option are left to me(us) subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I(We) hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I (we) have set my (our) hand(s) and affixed my (our) seal(s).

4/26/2000  
(date)  
4/26/2000  
(date)  
4/26/2000  
(date)

 Seal  
Tak Kin Chu  
 Seal  
Francisco Santiago  
 Seal  
Kevin A. Boulais